

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A motor system for a tank of a batch freezing machine or smaller machine for mixing and chilling ice cream, the motor system comprising a variable speed motor having a speed control, the speed control allowing the motor speed to be chosen across a spectrum of more than two speeds, wherein the speed control allows the motor to be ramped up from a zero speed across the spectrum to a production speed.
2. (Original) The system of Claim 1 wherein the variable speed motor has a reverse speed.
3. (Original) The system of Claim 2 wherein the spectrum is a continuous spectrum.
4. (Currently Amended) An ice cream machine, the ice cream comprising a cooling chamber including an auger, the auger being operable in a forward motion and a reverse motion wherein the ice cream machine includes an ice cream input and an inclusions input, wherein liquid ice cream is provided to the ice cream input and semi-solid or solid inclusions are provided to the inclusions input, wherein the auger is used to produce solid ice cream from the liquid ice cream and to mix the semi-solid inclusions.
5. (Original) The machine of Claim 4, further comprising a gate at an output of the cooling chamber, the gate metering the flow of ice cream from the cooling chamber.
6. (Currently Amended) The ice cream machine of Claim 5, further comprising: an aperture at the output of the cooling chamber, the aperture for receiving semi-solid and or solid inclusions.
7. (Currently Amended) The ice cream machine of Claim 6 An ice cream machine, comprising:

a cooling chamber including an auger, the auger being operable in a forward motion and a reverse motion;

a gate at an output of the cooling chamber, the gate metering the flow of ice cream from the cooling chamber; and

an aperture at the output of the cooling chamber, the aperture for receiving semi-solid or solid inclusions, wherein the solid or semi-solid inclusions are mixed into ice cream within the cooling chamber by operating the auger in the reverse motion and introducing the inclusions through the aperture.

8. (Original) The machine of Claim 4 wherein the auger motor is driven by a motor, the motor being a variable speed motor, the motor capable of operating at more than two speeds.

9. (Original) The ice cream machine of Claim 5 wherein the gate is provided on a door that covers an end of the cooling chamber.

10. (Currently Amended) ~~The ice cream machine of Claim 9~~ An ice cream machine, comprising:

a cooling chamber including an auger, the auger being operable in a forward motion and a reverse motion; and

a gate at an output of the cooling chamber, the gate metering the flow of ice cream from the cooling chamber, wherein the gate is provided on a door that covers an end of the cooling chamber and wherein the door includes an aperture for introducing solid and or semi-solid inclusions.

11. (Original) The ice cream machine of Claim 10 wherein a temperature sensor is provided through the door or a rear of the cooling chamber.

12. (Original) The ice cream machine of Claim 10 wherein the door is manufactured from plastic.

13. (Original) The ice cream machine of Claim 11 wherein the door is a food grade plastic.

14. (Currently Amended) A system for dispensing ice cream from a machine for making ice cream having a tank for mixing and freezing the ice cream, the system comprising:

means for mixing ice cream in the tank; and

means for controlling the means for ~~mixing~~, mixing, wherein mixing is controlled at more than two forward speeds or in a forward and reverse motion, wherein the means for mixing includes an ice cream input and an inclusions input.

15. (Currently Amended) The system of Claim 17 14 wherein the means for mixing includes an auger and a variable speed motor.

16. (Currently Amended) The system of Claim 18 15 wherein the means for controlling includes a keypad.

17. (Currently Amended) The system of Claim 18 15 further comprising a door having an aperture, the aperture being the inclusions input.

18-20. (Cancelled).

21. (Currently Amended) An improved ice cream machine including a tank for mixing and freezing the ice cream, the improvement comprising:

at least one motor for mixing the ice cream in the tank at a first velocity and for mixing semi-solid or solid inclusions at a second speed velocity and an ice cream input for receiving liquid ice cream and an inclusions input for receiving solid or semi-solid inclusions, the inclusions input being closer to an ice cream output than the ice cream input.

22. (Currently Amended) The improved machine of Claim 21 wherein the first speed velocity is a forward speed motion and the second speed velocity is a reverse speed motion.

23. (Currently Amended) ~~The improved machine of Claim 22~~ An improved ice cream machine including a tank for mixing and freezing the ice cream, the improvement comprising:

at least one motor for mixing the ice cream in the tank at a first velocity and for mixing semi-solid or solid inclusions at a second velocity wherein the first velocity is a forward speed and the second velocity is a reverse speed, wherein the solid and or semi-solid inclusions enter the tank through an aperture near an output of the tank.